

W#: 5079
C#: 208

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B. 3667
C. Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

La Dec Homes, Inc.

P. O. Box 431

OWNER: Lidge O. J. Johnson, President

Mailing Address: Hopewell, Va. 23860

TENANT:

Mailing Address:

16815 Happy Hill Rd.

DRILLER: Mitchell's Well & Pump Co., Inc.

Mailing Address: Colonial Heights, VA. 23834

WELL LOCATION: County Prince George

Approx. _____ feet miles _____ (direction) of _____

Off Rt. 156 on Rt. 674

and _____ feet miles _____ (direction) of _____

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: August 1977

DATE COMPLETED: August 1977

TYPE OF DRILL RIG USED: Rotary & cable tool

TOTAL DEPTH 239 feet

Between 75' and 80'

WATER LEVEL: Stands _____ feet below surface

OR

has NATURAL flow of _____ gallons per minute

YIELD TEST: Method Pumped

Drawdown 130 feet pump pipe

Rate 18 gal. per min. took no air

Duration 12 hrs., _____ min.

HOLE SIZE: 7 1/2 inches from 0 to 12 feet

6 inches from 12 to 223 feet

4 inches from 223 to 239 feet

SCREEN SIZE: 4 inches from 21'4" of hacked pipe to _____ feet on bottom

WATER ZONES: from _____ to _____ feet

from _____ to _____ feet

from _____ to _____ feet

CASE SIZE: 4 inches from +1 to 238'7" feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

WELL TO SUPPLY: (check one) Home

Farm _____ Town _____ School _____

Industry _____ Other _____

GROUTING: Method _____

Material Cement, sand and gravel Depth 10 feet

PUMP: Type _____

Capacity _____ gal per min

Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

DRILL CUTTINGS SAVED: 25 Yes No _____

(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST.)

REMARKS:

FURNISHED BY: _____

DATE: _____

| DEPTH (feet) | | TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.) | REMARKS (water, caving, shot, screen, sample, etc.) |
|--------------|-----|--|--|
| FROM | TO | | |
| 0 | 0 | Gray top soil | |
| | 10 | Tan gravel and soil | |
| | 20 | Orangeish earth | |
| | 30 | Tan-gray earth | |
| | 40 | Gray earth | |
| | 50 | Ditto | |
| 60 | 150 | Gray earth & shell fragments | |
| | 160 | Gray earth | |
| 170 | 190 | Gray earth & gravel | |
| 200 | 220 | Gray sand & gravel | |
| 230 | 239 | Gray sand & gravel | |

VIRGINIA DIVISION OF MINERAL RESOURCES
Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

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Well Repository No: W#: 5079

Date rec'd: 3/17/78 Date Processed: 4/13/78

C#: 208
Sample Interval: from: 0 to: 239

PROPERTY: La Dec Homes, Inc.
(L. O. J. Johnson)

Number of samples: 25

COMPANY: Mitchell W & P Co.

Total Depth: 239'

COUNTY: Prince George

Oil or Gas: Waterx Exploratory:

| From-To | From-To | From-To | From-To |
|---------|---------|---------|---------|
| - 0 | - | - | - |
| - 10 | - | - | - |
| - 20 | - | - | - |
| - 30 | - | - | - |
| - 40 | - | - | - |
| - 50 | - | - | - |
| - 60 | - | - | - |
| - 70 | - | - | - |
| - 80 | - | - | - |
| - 90 | - | - | - |
| - 100 | - | - | - |
| - 110 | - | - | - |
| - 120 | - | - | - |
| - 130 | - | - | - |
| - 140 | - | - | - |
| - 150 | - | - | - |
| - 160 | - | - | - |
| - 170 | - | - | - |
| - 180 | - | - | - |
| - 190 | - | - | - |
| - 200 | - | - | - |
| - 210 | - | - | - |
| - 220 | - | - | - |
| - 230 | - | - | - |
| - 239 | - | - | - |

Washed and unwashed samples.

OWNER: La Dec Homes, Inc.
(L. O. J. Johnson)
DRILLER: Mitchell W & P Co.
COUNTY: Prince George

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TOTAL DEPTH: 239'
QUAD.: Hopewell

GEOLOGIC LOG

Depth
(feet)

- 0 Sand — yellowish gray; moderate clay; fine to medium grained, few granules; subangular to subrounded; moderately sorted; quartz; feldspar.
- 10 Sand — pale yellowish orange; slightly clayey; medium grained to granular, 5% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques.
- 20 Sand — moderate yellowish orange; fine to medium grained, some coarse grained, some coarse grains, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; 2% opaques.
- 30 As above except grayish orange; fine to coarse grained.
- 40 Sand — grayish yellow; slightly clayey; fine to very coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; 5% ferricrete; some opaques; some black phosphatic material.
- 50 Sand — light olive gray; slightly clayey; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; some black phosphatic material; some ferricrete; some feldspar.
- 60 Sand — light olive gray; slightly clayey; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; 3% black phosphatic material; some shell fragments; few grains of glauconite.
- 70 Sand — olive light gray; moderate clay; fine to very coarse grained, some granules; subangular to subrounded; poorly sorted; quartz; 10% glauconite; 3% shell fragments, 2% black phosphatic material.
- 80 Sand — olive light gray; moderate clay; fine grained to granular; subangular to rounded; poorly sorted; quartz; 30% glauconite (black, green); some shell fragments; some black phosphatic material; muscovite; large shark's tooth.
- 90 Sand — olive light gray; moderate clay; very fine to medium grained, 15% granules; subangular to rounded; poorly sorted; quartz; 35% glauconite; 15% shell fragments; some black phosphatic material; ostracode.
- 100 As above plus some pebbles; 25% glauconite.

OWNER: La Dec Homes, Inc.
(L. O. J. Johnson)

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W#: 5079

Depth
(feet)

- 110 Sand — olive light gray; moderate clay; coarse grained to granular, some medium grains, few pebbles; subrounded to rounded; moderately sorted; quartz; 10% glauconite; 10% shell fragments; feldspar; some muscovite.
- 120 Sand — light olive gray; moderate clay; medium to very coarse grained, some granules; subrounded to rounded; moderately sorted; quartz; 15% glauconite; feldspar; some shell fragments.
- 130 As above except 7% glauconite.
- 140 As above except 7% granules; 3% glauconite.
- 150 Sand — yellowish gray; slightly clayey; coarse to very coarse grained, some medium grains, 10% granules, some pebbles; subrounded; moderately sorted; quartz; feldspar; some glauconite; few shell fragments.
- 160 As above except coarse grained to granular, some pebbles.
- 170 Sand — yellowish gray; slightly clayey; coarse to very coarse grained, some fine grains, some coarse grains, 15% granules, few pebbles; subrounded; poorly sorted; quartz; feldspar; some glauconite.
- 180 As above except coarse grained to granular, some medium grains, some pebbles; angular to subrounded; moderately sorted.
- 190 As above plus few shell fragments.
- 200 As above plus some muscovite; subrounded.
- 210 Sand — yellowish gray; slightly clayey; medium grained to granular, 10% angular pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet; muscovite.
- 220 As above except 7% subrounded pebbles; some glauconite.
- 230 Sand — white; medium to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite.
- 239 Sand — white; coarse to very coarse grained, 15% granules, few pebbles; subrounded; moderately well sorted; quartz; feldspar.

Logged by: Michael T. Currie

OWNER: La Dec Homes, Inc.
(L. O. J. Johnson)

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GEOLOGIC SUMMARY

| <u>Depth</u> <u>(feet)</u> | <u>Thickness</u> <u>(feet)</u> | <u>Rock Unit</u> | <u>Time Rock Unit</u> |
|-------------------------------|-----------------------------------|-------------------------|-----------------------|
| 0-50 | 50 | Bacons Castle Formation | Pleistocene |
| 50-70 | 20 | Calvert Formation | Miocene-Eocene |
| 70-150 | 80 | Nanjemoy Formation | Eocene |
| 150-239 | 89+ | Patuxent Formation | Cretaceous |

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
September 15, 1978